PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

DAVID J. LEVY GLAXOSMITHKLINE CORPORATE INTELLECTUAL PROPERTY DEPT. FIVE MOORE DRIVE, PO BOX 13398 RESEARCH TRIANGLE PARK, NC 27709

NOTIFICATION OF ARIANS METTING OFFICE THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION

1	(FC1 KW6 44.1)	
	Date of mailing (day/month/year) 1 0 MAY 2005	
Applicant's or agent's file reference TC00006WO	FOR FURTHER ACTION See paragraphs 1 and 4 below	
International application No. PCT/US04/38307	International filing date (day/month/year) 17 November 2004 (17.11.2004)	
Applicant SMITHKLINE BEECHAM CORPORATION		

SMITHCOME BEECHAM CONFORM HON				
1.	\boxtimes	The applicant is hereby notified that the international search report and the written opinion of the International Searching Authorithave been established and are transmitted herewith.		
		Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):		
		When?	The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.	
		Where?	Directly to the International Bureau of WIPO, 34 chemin des Columbettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 740 14 35	
		For mor	e detailed instructions, see the notes on the accompanying sleet.	
2.			nt is hereby notified that no international search report will be established and that the declaration under (3)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.	
3.		With regar	ul to the protest against payment of (an) additional fcc(s) under Rule 40.2, the applicant is notified that:	
	[reques	otest together with the decision thereon has been transmitted to the International Bureau together with the applicant's to forward the texts of both the protest and the decision thereon to the designated Offices. ision has been made yet on the protest; the applicant will be notified as soon as a decision is made.	

Reminders

Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bir.1 and 90bir.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months. See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US

Commissioner for Patents P.O. Box 1450

Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Authorized officer

Telephone No. (703) 308-1235

(See notes on accompanying sheet)

Form PCT/ISA/220 (January 2004)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference FOR FURTHER see Form PCT/ISA/220 TC00006WO ACTION as well as, where applicable, item 5 below				
International application No. PCI/US04/38307	International filing date (day/month/year) 17 November 2004 (17.11.2004)	(Earliest) Priority Date (day/month/year) 04 December 2003 (04.12.2003)		
Applicant SMITHKLINE BEECHAM CORPORATION	Applicant SMITHKLINE BEECHAM CORPORATION			
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of sheets. It is also accompanied by a copy of each prior art document cited in this report. 1. Basis of the Report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this Item. The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1 (b)). b. With regard to any accleetide and/or antion acid sequence disclosed in the international application, see Box No. I. Certain ctalms were found unsearchable (See Box No. III) 4. With regard to the title, The international search was carried out on the basis of the international application furnished to this Authority (Rule 23.1 (b)). With regard to any accleetide and/or antion acid sequence disclosed in the international application, see Box No. I. Unity of invention is lacking (See Box No. III) 4. With regard to the title, the text has been established by this Authority to read as follows:				
	tted by the applicant. according to Rule 38.2(b), by this Authority a the date of mailing of this international search			
as suggested by the sas selected by this A	uthority, because the applicant failed to sugge uthority, because this figure better characteriz			
b none of the figures is to be published with the abstract.				

INTERNATIONAL SEARCH REPORT

International application No. PCT/US04/38307

	No. II	Observations where certain claims were found unscarchable (Continuation of item 2 of first sheet)
This in	nternali	onal search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.		Claims Nos.: because they relate to subject matter not required to be scarched by this Authority, namely:
2.		Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3.		Claims Nos.; 6 because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box N	No. 111	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This U	nternatio	onal Searching Authority found multiple inventions in this international application, as follows:
ı. [2 [3. [As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. [No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remar	rk oa Pr	The state of the s
		No protest accompanied the payment of additional search fees.

Form PCT/ISA/210 (continuation of first sheet(2)) (January 2004)

919 483 7977 To:17046259103 P.4/7

	INTERNATIONAL SEARCH REPO	RT International application No.		cation No.
	,,		PCT/US04/38307	
A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : C07D 491/048; A61K 31/4985 US CL : 544/278; 514/248 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED				
	Minimum documentation searched (classification system followed by classification symbols) U.S.: 544/278; 514/248			
Documentation	n searched other than minimum documentation to the	extent that such docum	ents are included in	the fields searched
	a base consulted during the international search (nam ntinuation Sheet	e of data base and, when	re practicable, searel	temis used)
c bocn	MENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where a			Refevant to claim No.
A	Database CAS ONLINE on \$1N, Chem. Abstr., Acc of Heterocyclic Chemistry (1995), 4(3), 191-4, (ALI	ession No. 1995:53769 et al), abstract.	7, Indian Journal	1-5
X,P	MABDA et al., Bioorganic & Medicinal Chemistry I	etters 14 (2004) 3907-	3911.	t-5
	locuments are listed in the continuation of Box C-		amily annex.	
·	efining the general state of the art which is not considered to be of	date and not is principle or th	n conflict with the applications underlying the inven-	
	ication or patent published on or after the international filing date	considered no	particular relevance; the of yel or cannot be considere ment is taken alone	aimed invention camed be ed to involve an inventive step
	which may throw doubts on priority claim(3) or which is cited to t publication date of another classion or other special reason (as	"Y" document of p	articular relevance; the ol involve an inventive step	when the document is
"O" document referring to an oral disclosure, use, exhibition or other means combined with one or more other such documents, such combination being obvious to a person skilled in the art				
"I" document published prior to the international filing date but later than the "&" document mentions of the same patent family priority data claimed			insily	
Date of the actual completion of the international search Date of mailing of the international search repro MAY			17 MAY 2009	
13 April 2005 (Name and mail:	ing address of the ISA/US	Authorized officer		
Mail S Comm	Stop PCT, Attn: ISA/US nissioner for Patents	Rebecca L. Antierson	Jew)	M.CARON
	30x 1450 ndria, Virginia 22313-1450 703) 305-3230	Telephong No. (703)	308-1235	2006

Form PCT/ISA/210 (second sheet) (January 2004)

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International application No. INTERNATIONAL SEARCH REPORT PCT/US04/38307 Continuation of B. FIELDS SEARCHED Item 3: CAS ONLINE STN structure search

Form PCT/ISA/210 (extra sheet) (January 2004)

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see PCT Applicant's Guide, Volume I/A, Annexes B1 and B2).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the International Searching Authority has declared, under Article 17(2), that no international search report would be established (see PCT Applicant's Guide, Volume VA, paragraph 296).

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

Ouring the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the rational phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter,

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: DAVID J. LEVY	PCT		
GLAXOSMITHKLINE CORPORATE INTELLECTUAL PROPERTY DEPT. FIVE MOORE DRIVE, PO BOX 13398 RESEARCH TRIANGLE PARK. NC 27709	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL		
RESEARCH INDIVIDUE FARK, INC 2/109	SEARCHING AUTHORITY, OR THE DECLARATION		
	(PCT Rule 44.1)		
	Date of mailing (day/month/year)		
Applicant's or agent's like reference TC00006WO	FOR FURTHER ACTION See paragraphs 1 and 4 below		
International applic~tion No. PCT/IJS04/38307	International filing date (day/month/year) 17 November 2004 (17.11.2004)		
Applicant			
SMITHKLINE L :HAM CORPORATION			
1. If can't y notified that of the all seasons on early and are transport with.	rch report and the written opinion of the International Searching Authority		
of seretents and status enf se de. Article	ims of the at onal applicat		
When? The time limit for filing such umendments is	"		
search report. Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes			
1211 Geneva 20. Switzerland, Facsimile No For more detailed instructions, see the notes on the r			
2. The applicant is hereby notified that no international search report will be established and that the ds: aration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.			
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	cen transmitted to the International Bureau together with the applicant's		
request to forward the texts of both the protest and to no decision has been made yet on the protest; the ap	plicant will be notified as soon as a decision is made.		
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Name and mailing address of the ISA/US Mail Stop PCT, Arm: ISA/US Commissioner for Patents	Reheres L. Anderson		
P.O. Box 1450 Alexandria, Virginia 22313-1450	Telephone No. (703) 308-1235		

Facsimile No. (703) 305-3230 Form PCT/ISA/220 (January 2004)

(See notes on accompanying sheet)